QP Code: 15315

		(3 Hours) [Total Marks:100	
ν.	B.:	 Questions No.1 is compulsory. Solve any four questions from the remaining six questions Assume suitable data wherever required. 	
	(b) (c)	Explain the difference between lossy and lossless compression. Write short note on Croma Subsampling. Explain the role of Nyquist Theorm in basics of digital audio. Write Short Note on TV trees.	20
2.	(a) (b)	Describe the JPEG methodology/ algorithm. Clearly state and explain the mathematical treatment and building blocks used in detail. Explain different Color Model in images in detail.	10 10
3.	(a)	Explain how RTP with RTCP. RSVP and RTSP play important role in Multimedia	10
		communication.	
	(b)	Explain different multimedia elements which can be used in college website.	10
1	(a)	Explain MPEG -1 motion compensation concept along with the video bit stream.	10
τ.	(b)		10
		String Code	
		. A 1	
		B 2	
		C 3	
5	(a)	Explain different broadcasting schemes in Video On Demand.	10
•	(b)	Explain Internet Telephony advantage over POTS. Explain the role of SIP protocol in Internet telephony.	10
5.	(a)	Explain essential design steps (design methodology) for multimedia system. Design with example.	10
	(b)	Explain with suitable diagram the encoder and decoder of H.261 along with the bit stream syntax.	1(
7.	Write	e Short note on (Any two):— (a) Multimedia Networking and Multiplexing Technologies (b) Explain Huffman coding algorithm with suitable example (c) Speech coding technique in G.726 (d) MIDI	20